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Nota di contenuto	Britton Chance (1913 - 2010): His Life, Times, and Legacy as A Scientist, Engineer, Inventor, Educator, Athlete, Patriot, Philosopher, and an Excellent ISOTT Member.- Effects of Experimentally Deviated Mandibular Position on Stress Response.- Kidney EPO Expression during Chronic Hypoxia in Aged Mice.- Nature's "Silver Bullet" for Anticoagulation: Mechanism of Zymogen Protein C to Activated Protein C.- Canonical Correlation Analysis in the Study of Cerebral and Peripheral Haemodynamics Interrelations with Systemic Variables in Neonates Supported on ECMO.- Blood Oxygen Level Dependent Magnetization Transfer (BOLDMT) Effect.- Characterizing Prostate Tumor Mouse Xenografts with CEST & MT MRI and Redox Scanning.- In vitro Sirius Red Collagen Assay Measures the Pattern Shift From Soluble to Deposited Collagen.- Intravoxel Incoherent Motion MR Imaging of the Kidney. Pilot study.- Changes in Gastric Mucosa, Submucosa & Muscularis IC pH May Herald Irreversible Tissue Injury.- Normobaric Hyperoxia Does Not Change Optical Scattering or Pathlength but Does

Increase Oxidised Cytochrome c Oxidase Concentration in Patients with Brain Injury.- Multi-frequency Forced Oscillation Technique using Impulse Oscillations.- NIRS Measurements with Elite Speed Skaters: Comparison between the Ice Rink and the Laboratory.- Modelling Cerebrovascular Reactivity: A Novel Near Infrared Biomarker of Cerebral Autoregulation?.- Oxygen Delivery Deficit in Exercise with Rapid Ascent to High Altitude.- Oscillations in Cerebral Hemodynamics in Patients with Falciparum Malaria.- Effect of Spinal Anesthesia for Elective Cesarean Section on Cerebral Blood Oxygenation Changes: Comparison of Hyperbaric and Isobaric Bupivacaine.- DCX-expressing Neurons Decrease in the Retrosplenial Cortex after Global Brain Ischemia.

- Calibration and Validation Scheme for In Vivo Spectroscopic Imaging of Tissue Oxygenation.- Considering the Vascular Hypothesis of Alzheimer's Disease: Effect of Copper Associated Amyloid on Red Blood Cells.- The Role of Mitochondrial Proteomic Analysis in Radiological Accidents and Terrorism.- Alteration of Plasma Galactose/N-acetylgalactosamine Level after Irradiation.- Fibroblast Growth Factor-peptide Promotes Bone Marrow Recovery after Irradiation.- Dynamic Two-Photon Imaging of Cerebral Microcirculation Using Fluorescently Labeled Red Blood Cells and Plasma.- The Effect of Basic Assumptions on the Tissue Oxygen Saturation Value of Near Infrared Spectroscopy.
- The Effect of Sudden Depressurization on Pilots at Cruising Altitude.
- Hypoxia in the Diabetic Kidney is Independent of Advanced Glycation End-products.- Tumor Oxygen Measurements and Personalized Medicine.- Wavelet Cross-Correlation to Investigate Regional Variations in Cerebral Oxygenation in Infants supported on Extra-Corporeal Membrane Oxygenation.- Association of the Red Cell Distribution Width with Red Blood Cell Deformability.- Kidney Function after In Vivo Gene Silencing of Uncoupling Protein-2 in Streptozotocin-induced Diabetic Rats.- Adenosine A2 Receptor-mediated Regulation of Renal Hemodynamics and Glomerular Filtration Rate is Abolished in Diabetes.
- Can Mitochondrial Cytochrome Oxidase Mediate Hypoxic Vasodilation via Nitric Oxide Metabolism?.- Effects of Occlusal Disharmony on Working Memory Performance and Prefrontal Cortex Activity Induced by Working Memory Tasks Measured by NIRS.- Biological Maintenance of Distal Vein Arterialization.- Bayesian STAI Anxiety Index Predictions Based on Prefrontal Cortex NIRS Data for the Resting State.- The Effect of Venous and Arterial Occlusion of the Arm on Changes in Tissue Blood Flow/Volume, Oxygenation and Ultra-weak Photon Emission.
- Metabolic Network Analysis of DB1 Melanoma Cells: How much Energy is Derived from Aerobic Glycolysis?.- Muscle Oxygen Saturation Heterogeneity among Leg Muscles during Ramp Exercise.- PET-imaging of the Impact of Extracellular pH and MAP Kinases on the p-glycoprotein (Pgp) Activity.- Meconium and Transitional Stools May Cause Interference with Near-Infrared Spectroscopy Measurements of Intestinal Oxygen Saturation in Preterm Infants.- Acute Effects of Physical Exercise on Prefrontal Cortex Activity in Older Adults: A Functional Near-Infrared Spectroscopy Study.- Blood Flow and Oxygenation Status of Prostate Cancers.- Targeted Delivery of VEGF to Treat Myocardial Infarction.- Magnetic Nanoparticles and Thermally-Responsive Polymer for Targeted Hyperthermia and Sustained Anti-Cancer Drug Delivery.- NIR Fluorophore-Hollow Gold Nanosphere Complex for Cancer Enzyme Triggered Detection and Hyperthermia -- Renal Oxygenation and Function of the Rat Kidney: Effects of Inspired Oxygen and Preglomerular Oxygen Shunting.- Alteration of the Inflammatory Molecule Network after Irradiation of Soft Tissue.
- Imaging the Redox States of Human Breast Cancer Core Biopsies.
- Early Life Hypoxic or Hypoxic/hypercapnic Stress Alters Acute

Ventilatory Sensitivity in Adult Mice.- 3D Analysis of Intracortical Microvasculature during Chronic Hypoxia in Mouse Brain.- Contribution of Brain Glucose and Ketone Bodies to Oxidative Metabolism -- Alteration of Circulating Mitochondrial DNA Concentration after Irradiation.

Sommario/riassunto

From the 39th annual conference of the International Society on Oxygen Transport to Tissue (ISOTT), held in Washington, DC, USA in July 2011, this volume covers aspects of oxygen transport from air to the cells, organs and organisms; instrumentation and methods to sense oxygen and clinical evidence. This volume of Oxygen Transport to Tissues studies near infrared spectroscopy, brain oxygenation, tumor biology, angiogenesis and mitochondrial metabolism, systems modeling, gas transport, kidney and exercise physiology. Emphasis is placed on methods of oxygen measurement in living tissue and application of these technologies to understanding physiological and biological bases for pathology related to tissue oxygenation. This multidisciplinary volume includes contributions from scientists (physicists, biologists and chemists), engineers, clinicians and mathematicians.
